



## FDUM100VSAWVH

10.0 ( 4.0 ~ 11.2 )

Indoor Unit : FDUM100VH

Outdoor Unit : FDC100VSA-W

### Specifications

R32

Indoor unit			FDUM100VH
Outdoor unit			FDC100VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )
Power consumption	Cooling/Heating	kW	2.99 / 2.66
EER/COP	Cooling/Heating		3.35 / 4.21
Inrush current		A	5
Max. running current		A	17
Sound power level* <sup>1</sup>	Indoor * <sup>3</sup>	Cooling/Heating	65 / 65
	Outdoor	Cooling/Heating	69 / 70
Sound pressure level* <sup>1</sup>	Indoor * <sup>3</sup>	Cooling (Hi/Me/Lo/Ulo)	44 / 38 / 36 / 30
		Heating (Hi/Me/Lo/Ulo)	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating	54 / 55
Air flow	Indoor * <sup>3</sup>	Cooling (Hi/Me/Lo/Ulo)	36 / 28 / 25 / 19
		Heating (Hi/Me/Lo/Ulo)	36 / 28 / 25 / 19
	Outdoor	Cooling/Heating	75 / 73
Available external static pressure		Pa	Standard:60 Max:100
Exterior Dimensions	Indoor	Height x Width x Depth	280 x 1,370 x 740
	Outdoor		845 x 970 x 370
Net weight	Indoor / Outdoor	kg	54 / 78
Refrigerant	Type/GWP		R32/675
Refrigerant	Charge	kg/TCO <sub>2</sub> Eq	3.3/2.228
Refrigerant piping size	Liquid/Gas	ø mm	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.50
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15
Outdoor operating temperature range	Cooling* <sup>2</sup>	°C	-15~50
	Heating		-20~20
Air filter quantity			(Option) Filter kit : UM-FL3EF
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2
Energy Class (Cooling/Heating)			A+ /A+
SEER			6.11
SCOP (Average climate)			4.19
Pdesign (cooling/heating(@-10°C))		kW	10.0/8.5
Annual Electricity Consumption (cooling/heating)		kWh/a	574/2843
Designated Heating Season			Average

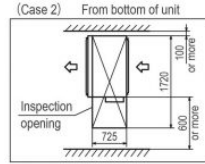
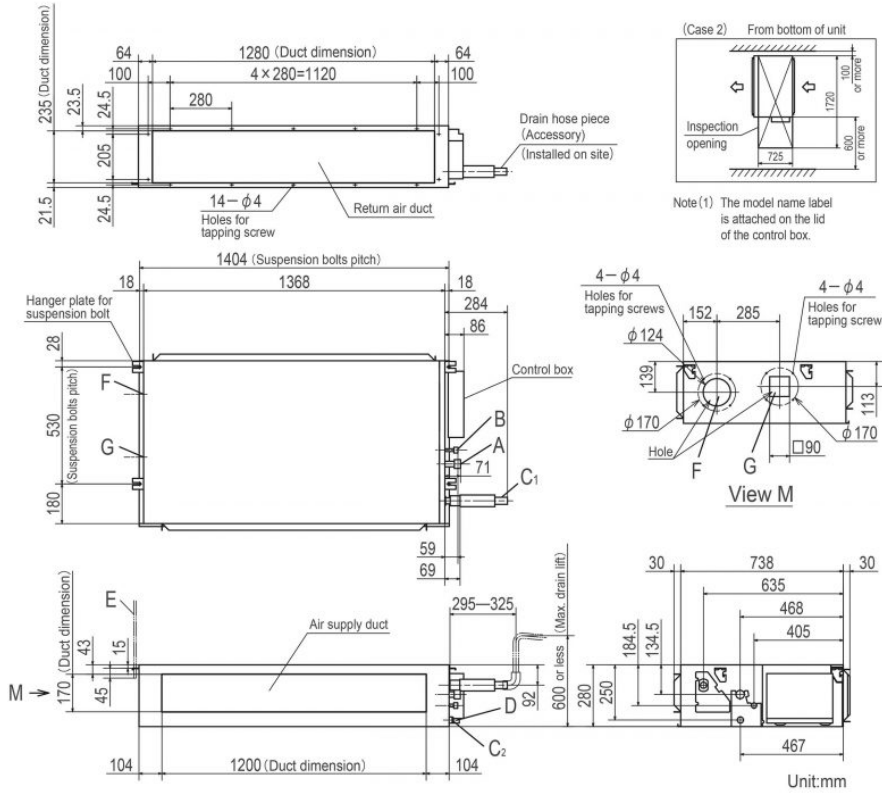
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A : ISO-T1).

Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

- : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa
- : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.
- : The values are for one indoor unit operation. (Multi system only)

# Schematics

## Models FDUM100VH,125VH,140VH

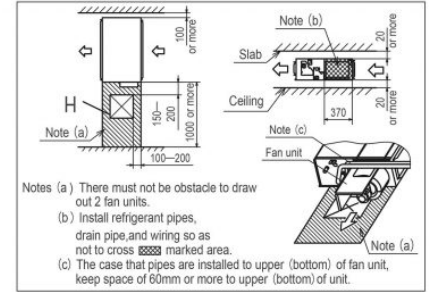


Note (1) The model name label is attached on the lid of the control box.

Symbol	Content
A	Gas piping $\phi 15.88 (5/8")$ (Flare)
B	Liquid piping $\phi 9.52 (3/8")$ (Flare)
C	Drain piping VP25 (O.D.32)
C <sub>1</sub>	Drain piping (Gravity drainage) VP20
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting ( $\phi 150$ ) (Knock out)
G	Air outlet opening for ducting ( $\phi 125$ ) (Knock out)
H	Inspection opening (450×450)

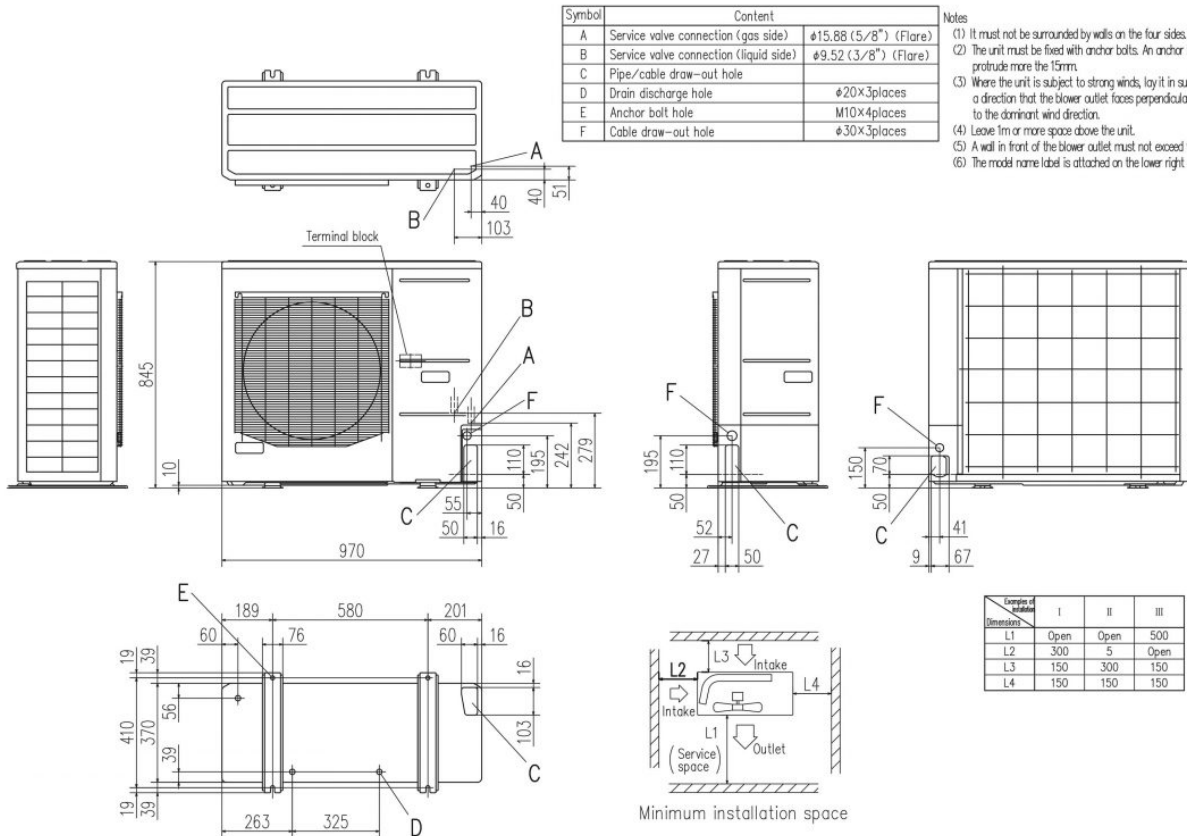
### Space for installation and service

Select either of two cases to keep space for installation and services.  
(Case 1) From side of unit



- Notes (a) There must not be obstacle to draw out 2 fan units.  
(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross marked area.  
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

## FDC100VNA-W, 125VNA-W, 140VNA-W, 100VSA-W, 125VSA-W, 140VSA-W FDC100VNA, 125VNA, 140VNA, 100VSA, 125VSA, 140VSA



Symbol	Content
A	Service valve connection (gas side) $\phi 15.88 (5/8")$ (Flare)
B	Service valve connection (liquid side) $\phi 9.52 (3/8")$ (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ places
E	Anchor bolt hole M10 $\times 4$ places
F	Cable draw-out hole $\phi 30 \times 3$ places

- Notes  
(1) It must not be surrounded by walls on the four sides.  
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.  
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.  
(4) Leave 1m or more space above the unit.  
(5) A wall in front of the blower outlet must not exceed the units height.  
(6) The model name label is attached on the lower right corner of the front panel.

Examples of minimum installation space	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	150	150	150